

APPENDIX 2. REFEREED ARTICLES

Asterisks indicate articles highlighted in Appendix 3.

Laboratory members' names are in boldface

613 Senior Staff and Senior Scientists

Coates, A. J., F. J. Crary, D. T. Young, K. Szego, C. S. Arridge, Z. Bebesi, E. C. Sittler, Jr., **R. E. Hartle**, and T. W. Hill, 2007: Ionospheric electrons in Titan's tail: Plasma structure during the Cassini T9 encounter, *Geophys. Res. Lett.*, **34**, L24S05, doi:10.1029/2007GL030919.

Dobe, Z., K. Szego, K. B. Quest, V. D. Shapiro, **R. E. Hartle**, and E. C. Sittler Jr., 2007: Nonlinear Evolution of Modified Two Stream Instability above Ionosphere of Titan: Comparison with the Data of the Cassini Plasma Spectrometer, *J. Geophys. Res.*, **112**, A03203, doi:10.1029/2006JA011770.

Hartle, R. E., and E. C. Sittler Jr., 2007: Pickup Ion Phase Space Distributions: Effects of Atmospheric Spatial Gradients, *J. Geophys. Res.*, **112**, A07104, doi:10.1029/2006JA012157.

Kim, M.-K., **W. K. M. Lau**, **K.-M. Kim**, and W.-S. Lee, 2007: A GCM study of effects of radiative forcing of sulfate aerosol on large scale circulation and rainfall in East Asia during boreal spring, *Geophys. Res. Lett.*, **34**, L24701, doi:10.1029/2007GL031683.

Lau, W. K. M., and **K.-M. Kim**, 2007: How Nature Foiled the 2006 Hurricane Forecasts. *Eos Trans. AGU*, **88**(9), doi:10.1029/2007EO090002.

Lau, W. K. M., and **K.-M. Kim**, 2007: Reply to Comment on "How Nature Foiled the 2006 Hurricane Forecasts," *Eos Trans. AGU*, **88**(26), doi:10.1029/2007EO260010

Lau, K.-M., K.-M. Kim, and Myong-In Lee 2007: Characteristics of diurnal and seasonal cycles in global monsoon systems, *J. Meteor. Soc. Japan*, **85A**, 403-416.

***Lau, K.-M.**, and **K.-M. Kim**, 2007: Cooling of the Atlantic by Saharan dust, *Geophys. Res. Lett.*, doi:10.1029/2007GL031538.

Lau, K.-M., and **K.-M. Kim**, 2007: Does aerosol strengthen or weaken the Asian Monsoon? *Mountains: Witnesses of Global Change*, R. Baudo, G. Tartari, and E. Vuillermoz, Eds., Elsevier, 340 pp.

Pinheiro, A., J. Descloitres, J. Privette, **J. Susskind**, L. Iredell, J. Schmaltz, 2007: Near-real Time Retrievals of Land Surface Temperature within the MODIS Rapid Response System, *Remote Sens. Environ.*, **106**, 326–336.

Ramirez-Beltran, N. D., **K. M. Lau**, A. Winter, J. M. Castro, and N. R. Escalante, 2007: Empirical probability models to predict precipitation levels over Puerto Rico stations, *Mon. Wea. Rev.*, **135**, 877–890.

Reale, O., J. Terry, M. Masutani, E. Andersson, L. P. Riishojgaard, **J. C. Jusem**, 2007: Preliminary evaluation of the European Centre for Medium-Range Weather Forecasts (ECMWF) Nature Run over the Tropical Atlantic and African Monsoon region, *Geophys. Res. Lett.*, **34**, L22810, doi:10.1029/2007GL31640.

Sittler, E. C. Jr., N. Andre, M. Blanc, M. Burger, R. E. Johnson, A. Coates, A. Rymer, D. Reisenfeld, M. F. Thomsen, A. Persoon, M. Dougherty, H. T. Smith, R. A. Baragiola, **R. E. Hartle**, D. Chornay, M. D. Shappirio, D. Simpson, D. J. McComas, and D. T. Young, 2007: Ion and Neutral Sources and Sinks within Saturn's Inner Magnetosphere: Cassini Results, *Planet. Space Sci.*, **56**, doi:10.1016/j.pss.2007.06.006.

APPENDIX 2: REFEREED ARTICLES

Szego, K., Z. Bebesi, C. Bertucci, A. J. Coates, F. Crary, G. Erdos, **R. Hartle**, E. C. Sittler, Jr., and D. T. Young, 2007: Charged particle environment of Titan during the T9 flyby, *Geophys. Res. Lett.*, **34**, L24S03, doi:10.1029/2007GL030677.

Ulbrich, C. W., and **D. Atlas**, 2007: Microphysics of Raindrop size spectra: Tropical continental and maritime storms, *J. Appl. Meteor. Climatol.*, **46**, 1777–1791.

613.1 Mesoscale Atmospheric Processes Branch

Adler, R., G. Huffman, and S. Curtis, 2007: A World of Rain: Our Changing Planet: The View From Space, M. D. King, C. L. Parkinson, K. C. Partington, and R. G. Williams, Eds., Cambridge University Press, Cambridge, 30-35.

Adler, R., and J. M. Shepherd (contributing authors): 2007: Observations: Atmospheric Surface and Climate Change. *Climate Change 2007: The Physical Science Basis, Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, M. Tignor and H. L. Miller, Eds., Cambridge University Press, Cambridge, 235-336.

Alonge, C., K. Mohr, and **W.-K. Tao**, 2007: Numerical case studies of wet vs dry regimes in the West African Sahel, *J. Hydrometeor.*, **8**, 102-116.

Amitai, E., J. A. Nystuen, E. N. Anagnostou, and M. N. Anagnostou, 2007: Comparison of deep under-water measurements and radar observations of rainfall, *IEEE Geosci. Remote Sens. Lett.*, **4**(3), doi:10.1109/LGRS.2007.895681.

Atlas, R., **S.-J. Lin, B.-W. Shen, O. Reale**, and **K.-S. Yeh**, 2007: Improving Hurricane Prediction through Innovative Global Modeling, *Extending the Horizons: Advances in Computing, Optimization & Decision Technologies*, E. K. Baker, A. Joseph, A. Mehrotra, M. A. Trick, Eds., Springer-Verlag, 1–14.

Bach D., **R.F. Adler, Y. Hong**, 2007, Potential of rainfall products for use in landslide hazard assessment in the Caribbean Region, *Global Energy and Water Cycle Experiment GEWEX NEWSLetter*, **7**(3), 5–7.

Behrendt, A., V. Wulfmeyer, P. Di Girolamo, C. Kiemle, H.-S. Bauer, T. Schaberl, D. Summa, **D. N. Whiteman, B. B. Demoz**, E. W. Browell, S. Ismail, R. Ferrare, S. Kooi, G. Ehret, and **J. Wang**, 2007: Intercomparison of water vapor data measured with lidar during IHOP_2002, Part I: Airborne to ground-based lidar systems and comparisons with chilled-mirror hygrometer radiosondes, *J. Atmos. Oceanic Technol.*, **24**(1), doi:10.1175/JTECH1924.1.

Behrendt, A., V. Wulfmeyer, C. Kiemle, G. Ehret, C. Flamant, T. Schaberl, H.-S. Bauer, S. Kooi, S. Ismail, R. Ferrare, E. V. Browell, and **D. N. Whiteman**, 2007: Intercomparison of water vapor data measured with lidar during IHOP_2002, Part II: Airborne to airborne systems, *J. Atmos. Oceanic Technol.*, **24**(1), 22–39, doi:10.1175/JTECH1925.1.

***Braun, S.**, and L. Wu, 2007: A numerical study of Hurricane Erin (2001). Part II: Shear and the Organization of Eyewall Vertical Motion, *Mon. Wea. Rev.*, **135**, 1179–1194.

Chepfer, H., M. Chiriaco, R. Vautard, and **J. Spinharne**, 2007: Evaluation of MM5 optically thin clouds over Europe in Fall using ICESat lidar spaceborn observations, *Mon. Wea. Rev.*, **135**, 2737–2753.

- Cram, T. A., J. Persing, M. T. Montgomery, and **S. A. Braun**, 2007: A Lagrangian Trajectory View on Transport and Mixing Processes between the Eye, Eyewall, and Environment Using a High-Resolution Simulation of Hurricane Bonnie (1998), *J. Atmos. Sci.*, **64**(6), 1835–1856.
- Curtis, S., A. Salahuddin, **R. F. Adler**, **G. J. Huffman**, **G. Gu**, and **Y. Hong**, 2007: Precipitation Extremes Estimated by GPCP and TRMM: ENSO Relationships, *J. Hydrometeor.*, **8**, 678–689.
- Fan, J., R. Zhang, G. Li, **W.-K. Tao**, and **X. Li**, 2007: Simulations of cumulus clouds using a spectral microphysics cloud-resolving model, *J. Geophys. Res.*, **112**, D04201, doi:10.1029/2006JD007688.
- Fan, J., R. Zhang, G. Li, and **W.-K. Tao**, 2007: Effects of aerosols and relative humidity on cumulus clouds, *J. Geophys. Res.*, **112**, D14204, doi:10.1029/2006JD008136.
- Fisher, B. L.**, 2007: Statistical error decomposition of regional-scale climatological precipitation estimates from the Tropical Rainfall Measuring Mission (TRMM), *J. Appl. Meteor. Climatol.*, **46**, 791–813.
- Gao, S., **X. Li**, **W.-K. Tao**, **C.-L. Shie**, and **S. Lang**, 2007: Convective and moist vorticity vectors associated with tropical oceanic convection: A three-dimensional cloud-resolving model simulation, *Geophys. Res. Lett.*, **112**, doi:10.1029/2006JD007179.
- Grim, J. A., R. M. Rauber, M. K. Ramamurthy, B. F. Jewett, and **M. Han**, 2007: High-resolution observations of the trowal warm-frontal region of two continental winter cyclones, *Mon. Wea. Rev.*, **135**, 1629–1646.
- ***Gu, G.**, **R. Adler**, **G. Huffman**, and S. Curtis, 2007: Tropical Rainfall Variability on Interannual-to-Interdecadal and Longer Time Scales Derived from the GPCP Monthly Product, *J. Climate*, **20**, 4033–4046.
- Hall, F. G., E. Brown de Colstoun, G. J. Collatz, D. Landis, P. Dirmeyer, A. Betts, **G. J. Huffman**, L. Bounoua, M. Bosilovich, and B. Meeson, 2007: ISLSCP Initiative II global datasets: Surface boundary conditions and atmospheric forcings for land-atmosphere studies, *J. Geophys. Res.*, **111**, doi:10.1029/2006JD007366.
- ***Halverson, J.**, P. L. Azofeifa, M. Black, **S. Braun**, D. Cecil, M. Goodman, A. Heymsfield, **G. Heymsfield**, R. Hood, T. Krishnamurti, G. McFarquhar, J. Molinari, R. Rogers, J. Turk, C. Velden, D.-L. Zhang, E. Zipser, and R. Kakar, 2007: NASA's Tropical Cloud Systems and Processes Experiment: Investigating Tropical Cyclogenesis and Hurricane Intensity Change, *Bull. Amer. Meteor. Soc.*, **88**, 867–882.
- Han, M.**, R. M. Rauber, M. K. Ramamurthy, B. F. Jewett, and J. A. Grim, 2007: Mesoscale Dynamics of the Trowal and Warm-Frontal Regions of Two Continental Winter Cyclones, *Mon. Wea. Rev.*, **135**, 1647–1670.
- Hong, Y.** and **R. F. Adler**, 2007: Towards an early-warning system for global landslides triggered by rainfall and earthquake, *Int. J. Remote Sens.*, **28**(16), doi:10.1080/01431160701311242.
- Hong, Y.**, **R. F. Adler**, **A. Negri**, and **G. J. Huffman**, 2007: Flood and landslide applications of near real-time satellite rainfall products, *Nat. Hazards*, **43**(2), doi:10.1007/s11069-006-9106-x.
- Hong, Y.**, **R. Adler**, and **G. Huffman**, 2007: Use of satellite remote sensing data in the mapping of global landslide susceptibility, *Nat. Hazards*, **43**(2), doi:10.1007/s11069-006-9104-z.
- Hong, Y.**, **R. Adler**, and J. Verdin, 2007: Use of 21st century satellite remote sensing technology in natural hazard analysis, *Nat. Hazards*, **43**(2), doi:10.1007/s11069-007-9133-2.
- Hong, Y.**, D. Gochis, J. Chen, K. Hsu, and S. Sorooshian, 2007: Evaluation of PERSIANN-CCS Rainfall Measurement Using the NAME Event Rain Gauge Network, *J. Hydrometeor.*, **8**(3), 469–482.

APPENDIX 2: REFEREED ARTICLES

***Hong, Y., R. Adler, and G. Huffman**, 2007: An Experimental Global Prediction System for Rainfall-Triggered Landslides Using Satellite Remote Sensing and Geospatial Datasets, *IEEE Trans. Geosci. Remote Sens.*, **45**(6), doi:10.1109/TGRS.2006.888436.

***Hong, Y., R. Adler, F. Hossain, S. Curtis, and G. Huffman**, 2007: A First Approach to Global Runoff Simulation using Satellite Rainfall Estimation, *Water Resour. Res.*, **43**, W08502, doi:10.1029/2006WR005739.

Hossain, F., N. Katiyar, **Y. Hong**, and A. Wolf, 2007: The emerging role of satellite rainfall data in improving the hydro-political situation of flood monitoring in the under-developed regions of the world, *Nat. Hazards*, **43**(2), doi:10.1007/s11069-006-9094-x.

Hou, A. Y., G. Skofronick-Jackson, C. Kummerow, and M. Shepherd, 2007: Global Precipitation Measurement, *Precipitation: Advances in Measurement, Estimation, and Prediction*, S. C. Michaelides, Ed., 131–164.

Hsu, K. L., **Y. Hong**, and S. Sorooshian, 2007: Rainfall Estimation Using a Cloud Patch Classification Map, *Measuring Precipitation from Space: EURAINSAT and the future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer-Verlag, 329–343.

***Huffman, G. J., R. F. Adler, D. T. Bolvin, G. Gu, E. J. Nelkin, K. P. Bowman, Y. Hong, E. F. Stocker, and D. B. Wolff**, 2007: The TRMM Multi-satellite Precipitation Analysis (TMPA): Quasi-Global, Multi-year, Combined-Sensor Precipitation Estimates at Fine Scales, *J. Hydrometeor.*, **8**(1), 38–55.

Huffman, G., R. Adler, S. Curtis, D. Bolvin, and E. Nelkin, 2007: Global Rainfall Analyses at Monthly and 3-hr Time Scales, *Measuring Precipitation from Space: EURAINSAT and the future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer-Verlag, 291–306.

Imhoff, M., L. Bounani, and **J. M. Shepherd**, 2007: Gray Wave of the Great Transformation, *Our Changing Planet: The View from Space*, M. D. King, C. L. Parkinson, K. C. Partington, R G. Williams, Cambridge University Press, 291–297.

Jin, M., J. M. Shepherd, and C. Peters-Lidard, 2007: Development of a Parameterization For Simulating the Urban Temperature Hazard Using Satellite Observations In Climate Model, *Nat. Hazards*, doi:10.1007/s11069-007-9117-2.

Johnson, D. E., **W.-K. Tao, and J. Simpson**, 2007: A Study of the Response of Deep Tropical Clouds to Large-Scale Thermodynamic Forcings. Part II: Sensitivities to Microphysics, Radiation, and Surface Fluxes, *J. Atmos. Sci.*, **64**(3), 869–886.

Juang, H., **W.-K. Tao, X. Zeng, C.-L. Shie, Lang, S. and J. Simpson**, 2007: Parallelization of the NASA Goddard Cumulus Ensemble Model for Massively Parallel Computing, *TAO*, **18**(3), doi:10.3319/TAO.2007.18.3.593(A).

Kumar, S., C. Peters-Liddard, J. Eastman, and **W.-K. Tao**, 2007: An integrated high resolution hydrometeorological modeling testbed using LIS and WRF, *Environmental Modelling and Software*, **23**(2), 169–181.

Kuzmanoski, M., M. A. Box, B. Schmid, G. P. Box, **J. Wang**, P. B. Russell, D. Bates, H. H. Johnson, **E. J. Welton**, and J. H. Seinfeld, 2007: Aerosol properties computed from aircraft-based observations during the ACE-Asia campaign: 2. A case study of lidar ratio closure, *Aerosol Sci. Technol.*, **41**, 231–243.

***Lang, S., W.-K. Tao, R. Cifelli, W. Olson, J. Halverson, S. Rutledge, and J. Simpson**, 2007: Improving Simulations of Convective Systems from TRMM LBA: Easterly and Westerly Regimes, *J. Atmos. Sci.*, **64**(4), 1141–1164.

***McGill, M. J.**, M. A. Vaughan, C. R. Trepte, **W. D. Hart, D. L. Hlavka**, D. M. Winker, and R. Keuhn, 2007: Airborne Validation of Spatial Properties Measured by the CALIPSO Lidar, *J. Geophys. Res.*, **112**(D20201), doi:10.1029/2007JD008768.

Michaelides, S., and **E. Amitai**, 2007: Preface: Observation, Prediction and Verification of Precipitation, *Adv. Geosci.*, **10**(1).

Mugnai, A., S. Di Michele, **E.A. Smith**, F. Baordo, P. Bauer, B. Bizzarri, P. Joe, C. Kidd, F.S. Marzano, A. Tassa, J. Testud, and G.J. Tripoli, 2007: Snowfall measurements by proposed European GPM mission, *Measuring Precipitation from Space: EURAINSAT and the Future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer-Verlag, 655–674.

Noel, V., D. M. Winker, T. J. Garrett, and **M. McGill**, 2007: Extinction coefficients retrieved in deep tropical ice clouds from lidar observations using a CALIPSO-like algorithm compared to in-situ measurements from the cloud integrating nephelometer during CRYSTAL-FACE, *Atmos. Chem. Phys.*, **7**, 1415–1422.

Pielke, R., G. Leoncini, D. Stokowski, **J. W. Wang, T. Matsui**, C. Castro, N. D. Niyogi, R. T. McNider, A. Bazar, and **W.-K. Tao**, 2007: Development of generalized parameterization of diabatic heating for use in weather and climate model, *Eos Trans. AGU*, **88**(8), 96–97, doi:10.1029/2007EO08003.

Seo, E.-K., G. Liu, **W.-K. Tao**, and S.-O. Han, 2007: Adaptation of a model-generated cloud database to satellite observations, *Geophys. Res. Lett.*, **34**, doi:10.1029/2006GL027857.

Shige, S., Y. Takayabu, **W.-K. Tao**, and C.-L. Shie, 2007: Spectral retrieval of latent heating profiles from TRMM PR data. Part II: Algorithm improvement and heating estimates over tropical ocean regions, *J. Appl. Meteor. Climatol.*, **46**, 1098–1124.

Shige, S., Y. Takayabu , and **W.-K. Tao**, 2007: Spectral retrieval of latent heating profiles from TRMM PR data. Part III: Estimating moistening over the tropical ocean regions, *J. Appl. Meteor. Climatol.*, **47**, 620–640.

Shiobara, M., M. Yabuki, R. Neuber, **J. Spinhirne, E. Welton**, J. Campbell, W. Hart, and T. Berkoff, 2007: Arctic experiment for the ICESat/GLAS ground validation with a Micro-Pulse Lidar at Ny-Alesund, Svalbard, *J. Polar Meteor. and Glaciol.*, **20**, 28–39.

Smith, E. A., G. Asrar, Y. Furuhama, A. Ginati, **R. Adler**, V. Casse, J. Durning, J. Entin, P. Houser, T. Iguchi, R. Kakar, J. Kaye, M. Kojima, C. Kummerow, V. Levizzani, M. Luther, **A. Mehta**, P. Morel, A. Mugnai, K. Nakamura, T. Nakazawa, S. Neeck, R. Oki, G. Raju, **M. Shepherd, J. Simpson**, E. Stocker, and J. Testud, 2007: International Global Precipitation Measurement (GPM) Program and Mission: An overview, *Measuring Precipitation from Space: EURAINSAT and the future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer-Verlag, 611–653.

Tao, W.-K., R. Houze, and **E. A. Smith** , 2007: The fourth TRMM Latent Heating Workshop, *Bull. Amer. Meteor. Soc.*, **88**, 1255–1259.

***Tao, W.-K.**, 2007: Cloud Resolving Modeling, *J. Meteor. Soc. Japan*, Special Issue of 125th Anniversary of Japan Meteorology Society, **85**, 305–330.

***Tao, W.-K.**, X. Li, A. Khain, T. Matsui, S. Lang, and J. Simpson, 2007: Role of atmospheric aerosol concentration on deep convective precipitation: Cloud-resolving model simulations, *J. Geophys. Res.*, **112**, D24S18, doi:10.1029/2007JD008728.

APPENDIX 2: REFERRED ARTICLES

*Tian, L., **G. M. Heymsfield, L. Li**, and R. C. Srivastava, 2007: Properties of light stratiform rain derived from 10- and 94-GHz airborne Doppler radars measurements, *J. Geophys. Res.*, doi:10.1029/2006JD008144.

Whiteman, D. N., I. Veselovskii, M. Cadirola, K. Rush, J. Comer, J. R. Potter, and R. Tola, 2007: Demonstration Measurements of Water Vapor, Cirrus Clouds, and Carbon Dioxide Using a High-Performance Raman Lidar, *J. Atmos. Oceanic Tech.*, **24**, doi:10.1175/JTECH2058.1.

Wu, L., 2007: Impact of Saharan Air Layer on Hurricane Peak Intensity, *Geophys. Res. Lett.*, **34** L09802, doi:10.1029/2007GL029564.

Wylie, D., E. Eloranta, **J. Spinharne**, and **S. Palm**, 2007: A Comparison of Cloud Cover Statistics from the GLAS Lidar with HIRS, *J. Climate*, **20**, 4968–4981.

Zeng, X., W.-K. Tao, M. Zhang, C. Peters-Lidard, **S. Lang, J. Simpson**, S. Kumar, S. Xie, J. L. Eastman, **C.-L. Shie**, and J. V. Geiger, 2007: Evaluating Clouds in Long-Term Cloud-Resolving Model Simulations with Observational Data, *J. Atmos. Sci.*, **64**, 4153–4329.

Zhou, Y. P., **W.-K. Tao, A. Y. Hou**, W. S. Olson, C.-L. Shie, **K.-M. Lau**, M.-D. Chou, X. Lin, and **M. Grecu**, 2007: Use of High-Resolution Satellite Observations to Evaluate Cloud and Precipitation Statistics from Cloud-Resolving Model Simulations. Part I: South China Sea Monsoon Experiment, *J. Atmos. Sci.*, **64**(12), 4309–4329.

613.2 Climate And Radiation Branch

Bruegge, C. J., D. J. Diner, **R. A. Kahn**, N. Chrien, M. C. Helmlinger, B. J. Gaitley, and W. A. Abdou, 2007: The MISR radiometric calibration process, *Remote Sens. Environ.*, **107**, doi:10.1016/j.rse.2006.07.024, 2–11.

Castanho, A., R. Prinn, **V. Martins**, M. Herold, **C. Ichoku**, and L. T. Molina, 2007: Urban Visible/SWIR surface reflectance ratios from satellite and sun photometer measurements in Mexico City, *Atmos. Chem. Phys.*, **7**, 5467–5477.

Chao, W. C., 2007: Chimeric Equatorial Waves as a Better Descriptor for “Convectively-Coupled Equatorial Waves,” *J. Meteor. Soc. Japan.*, **85**, 521–524.

Chiriaco, M., H. Chepfer, P. Minnis, M. Haeffelin, **S. Platnick**, D. Baumgardner, P. Dubuisson, M. McGill, V. Noel, J. Pelon, D. Spangenberg, S. Sun-Mack, and **G. Wind**, 2007: Comparison of CALIPSO-like, LaRC and MODIS retrievals of ice cloud properties over SIRTA in France and Florida during CRYSTAL-FACE, *J. Appl. Meteor. Climatol.*, **46**, 249–272.

***Chiu, J. C., A. Marshak, W. J. Wiscombe**, S. C. Valencia, and **E. J. Welton**, 2007: Cloud optical depth retrievals from solar background “signals” of micropulse lidars, *IEEE Geosci. Remote Sens. Lett.*, **4**, doi:10.1109/LGRS.2007.896722.

Chylek, P., U. Lohmann, M. Dubey, M. Mishchenko, **R. A. Kahn**, and A. Ohmura, 2007: Limits on climate sensitivity derived from recent satellite and surface observations, *J. Geophys. Res.*, **112**, doi:10.1029/2007JD008740.

Fox, D., E. Gonzales, **R. A. Kahn**, and J. Martonchik, 2007: Near-surface wind speed retrieval from space-based, multi-angle imaging of ocean sun glint patterns, *Remote Sens. Environ.*, **107**, doi:10.1016/j.rse.2006.10.021, 223–231.

Gasso, S., and A. F. Stein, 2007: Does dust from Patagonia reach the sub-Antarctic Atlantic Ocean?, *Geophys. Res. Lett.*, **34**, L01801, doi:10.1029/2006GL027693.

Gatebe, C. K., J. J. Butler, J. W. Cooper, M. Kowalewski, and **M. D. King**, 2007: Characterization of errors in the use of integrating-sphere systems in the calibration of scanning radiometers, *Appl. Opt.*, **46**, 7640–7651.

Gautam, R., N. C. Hsu, M. Kafatos, and **S.-C. Tsay**, 2007: Influences of Winter Haze on Fog/Low Clouds over the Indo-Gangetic Plains, *J. Geophys. Res.*, **112**, D05207, doi:10.1029/2005JD007036.

Hansell, R. A., S. C. Ou, K. N. Liou, J. K. Roskovensky, **S.-C. Tsay, C. Hsu, and Q. Ji**, 2007: Correction to “Simultaneous detection/separation of mineral dust and cirrus clouds using MODIS thermal infrared window data,” *Geophys. Res. Lett.*, **34**, L13802, doi:10.1029/2007GL031035.

Hansell, R. A., S. C. Ou, K. N. Liou, J. K. Roskovensky, **S.-C. Tsay, N. C. Hsu, and Q. Ji**, 2007: Simultaneous Detection/Separation of Mineral Dust and Cirrus Clouds Using MODIS Thermal Infrared Window Data, *Geophys. Res. Lett.*, **34**, L11808, doi:10.1029/2007GL029388.

Hong, G., P. Yang, B. C. Gao, B. A. Baum, Y. X. Hu, **M. D. King**, and **S. Platnick**, 2007: High cloud properties from three years of MODIS Terra and Aqua collection-4 data over the tropics, *J. Appl. Meteor. Climatol.*, **46**, 1840–1856.

Hong, G., P. Yang, H. L. Huang, B. A. Baum, Y. X. Hu, and **S. Platnick**, 2007: The sensitivity of ice cloud optical and microphysical passive satellite retrievals to cloud geometrical thickness, *IEEE Trans. Geosci. Remote Sens.*, **45**, 1315–1323.

Jeong, M. J., Z. Li, E. Andrews, and **S.-C. Tsay**, 2007: Effect of Aerosol Humidification on the Column Aerosol Optical Thickness over the ARM Southern Great Plains Site, *J. Geophys. Res.*, **112**, D10202, doi:10.1029/2006JD007176.

Ji, Q., 2007: A Method to Correct the Thermal Dome Effect of Pyranometers in Selected Historical Solar Irradiance Measurements, *J. Atmos. Oceanic Technol.*, **24**, 529–536.

***Kahn, R. A.**, M. J. Garay, D. L. Nelson, K. K. Yau, M. A. Bull, B. J. Gaitley, J. V. Martonchik, and **R. C. Levy**, 2007: Satellite-derived aerosol optical depth over dark water from MISR and MODIS: Comparisons with AERONET and implications for climatological studies, *J. Geophys. Res.*, **112**, D18205, doi:10.1029/2006JD008175.

Kahn, R. A., W.-H. Li, C. Moroney, D. J. Diner, J. V. Martonchik, and E. Fishbein, 2007: Aerosol source plume physical characteristics from space-based multiangle imaging, *J. Geophys. Res.*, **112**, D11205, doi:10.1029/2006JD007647.

King, M. D., 2007: Cloud optical and microphysical properties, *Our Changing Planet: The View from Space*, M. D. King, C. L. Parkinson, K. C. Partington, and R. G. Williams, Eds., Cambridge University Press, Cambridge, 15–20.

King, M. D., 2007: The Dynamic Atmosphere: An Introduction, M. D. King, C. L. Parkinson, K. C. Partington, and R. G. Williams, Eds, *Our Changing Planet: The View from Space*, Cambridge University Press, Cambridge, 5–9.

Koren, I., **L. A. Remer, Y. J. Kaufman**, Y. Rudich, and **J. V. Martins**, 2007: On the twilight zone between clouds and aerosols, *Geophys. Res. Lett.*, **34**, L08805, doi:10.1029/2007GL029253.

Koren, I., **L. A. Remer**, and K. Longo, 2007: Reversal of trend of biomass burning in the Amazon, *Geophys. Res. Lett.*, **34**, L20404, doi:10.1029/2007GL031530.

APPENDIX 2: REFEREED ARTICLES

Kundu, P. K., and R. K. Siddani, 2007: A New Class of Probability Distributions for Describing the Spatial Statistics of Area-averaged Rainfall, *J. Geophys. Res.*, **112**, D18113, doi:10.1029/2006JD008042.

Lee, M.-I., S. D. Schubert, M. J. Suarez, **T. L. Bell, and K.-M. Kim**, 2007: Diurnal cycle of precipitation in the NASA Seasonal to Interannual Prediction Project atmospheric general circulation model, *J. Geophys. Res.*, **112**, D16111, doi:10.1029/2006JD008346.

Lee, M.-I., S. D. Schubert, M. J. Suarez, I. M. Held, A. Kumar, **T. L. Bell**, J.-K. E. Schemm, N.-C. Lau, J. J. Ploshay, H.-K. Kim, and S.-H. Yoo, 2007: Sensitivity to horizontal resolution in the AGCM simulations of warm season diurnal cycle of precipitation over the United States and northern Mexico, *J. Climate*, **20**(9), 1862–1881.

Levy, R. C., and R. T. Pinker, 2007: Remote sensing of spectral aerosol properties: A classroom experience, *Bull. Amer. Meteor. Soc.* Vol. **(88)**, 1, 25–30.

Levy, R. C., L. A. Remer, and O. Dubovik, 2007: Global aerosol optical properties and application to Moderate Resolution Imaging Spectroradiometer aerosol retrieval over land, *J. Geophys. Res.*, **112**, D13210, doi:10.1029/2006JD007815.

Levy, R. C., L. A. Remer, S. Mattoo, E. Vermote, and **Y. J. Kaufman**, 2007: Second-generation operational algorithm: Retrieval of aerosol properties over land from Moderate Resolution Imaging Spectroradiometer spectral reflectance, *J. Geophys. Res.*, **112**, D13211, doi:10.1029/2006JD007811.

Liu, Y., M. Franklin, **R. A. Kahn**, and P. Koutrakis, 2007: Using aerosol optical thickness to predict ground-level PM_{2.5} concentrations in the St. Louis area: A comparison between MISR and MODIS, *Remote Sens. Environ.*, **107**, doi:10.1016/j.rse.2006.05.022, 33–44.

Liu, Y., **R. A. Kahn**, and P. Koutrakis, 2007: Estimating fine particulate matter component concentrations and size distributions using satellite-retrieved fractional aerosol optical depth: Part I - Method Development, *J. Air Waste Manage. Assoc.*, **57**, doi:10.3155/1047-3289.57.11.1351.

Liu, Y., **R. A. Kahn**, S. Turquety, R. M. Yantosca, and P. Koutrakis, 2007: Estimating fine particulate matter component concentrations and size distributions using satellite-retrieved fractional aerosol optical depth: Part II - A case study, *J. Air Waste Manage. Assoc.*, **57**, doi:10.3155/1047-3289.57.11.1360.

Lyapustin, A., Y. Wang, **R. A. Kahn**, J. Xiong, A. Ignatov, R. Wolfe, A. Wu, B. Holben, and C. Bruegge, 2007: Analysis of MODIS-MISR calibration differences using surface albedo around AERONET sites and cloud reflectance, *Remote Sens. Environ.*, **107**, doi:10.1016/j.rse.2006.09.028, 12–21.

***Martins, J. V., A. Marshak, L. Remer, D. Rosenfeld, Y. J. Kaufman, R. Fernandez-Borda**, I. Koren, V. Zubko, and P. Artaxo, 2007: Remote sensing the vertical profile of cloud droplet effective radius, thermodynamic phase, and temperature, *Atmos. Chem. Phys. Disc.*, **7**, 4481–4519.

Mazzoni, D., J. A. Logan, D. Diner, **R. A. Kahn**, L. Tong, and Q. Li, 2007: A data-mining approach to associating MISR smoke plume heights with MODIS fire measurements, *Remote Sens. Environ.*, **107**, 138–148.

Mi, W., Z. Li, X. Xia, B. Holben, **R. Levy**, F. Zhao, H. Chen, and M. Cribb, 2007: Evaluation of the Moderate Resolution Imaging Spectroradiometer aerosol products at two Aerosol Robotic Network stations in China, *J. Geophys. Res.*, **112**, D22S08, doi:10.1029/2007JD008474.

Moody, E. G., M. D. King, C. B. Schaaf, D. K. Hall, and **S. Platnick**, 2007: Northern Hemisphere five-year average (2000–2004) spectral albedos of surfaces in the presence of snow: Statistics computed from Terra MODIS land products, *Remote Sens. Environ.*, **111**, 337–345.

Muscheler, R., F. Joos, J. Beer, S. A. Muller, M. Vonmoos, and I. Snowball, 2007: Solar activity during the last 1000 yr inferred from radionuclide records, *Quaternary Science Reviews*, **26**, 82–97, doi:10.1016/j.quascirev.2006.07.012.

Mwale, D., T. Y. Gan, S. S. P. Shen, T. T. Shu, and **K.-M. Kim**, 2007: Wavelet empirical orthogonal functions of space-time-frequency regimes and predictability of southern Africa summer rainfall, *ASCE J. Hydrologic Engr.*, **12(5)**, 513–523.

***Oreopoulos, L., R. Cahalan, and S. Platnick**, 2007: The plane-parallel albedo bias of liquid clouds from MODIS observations, *J. Climate*, **20**, 5114–5125.

***Platnick, S.**, 2007: Ship Tracks, *Our Changing Planet: The View from Space*, M. D. King, C. L. Parkinson, K. C. Partington, and R. G. Williams, Eds., Cambridge University Press, Cambridge, 66–70.

Russell, P. B., J. M. Livingston, J. Redemann, B. Schmid, S. A. Ramirez, J. Eilers, **R. Khan, D. A. Chu, L. Remer**, P. K. Quinn, M. J. Rood, and W. Wang, 2007: Multi-grid-cell validation of satellite aerosol property retrievals in INTEX/ITCT/ICARTT 2004, *J. Geophys. Res.*, **112**, D12S09, doi:10.1029/2006JD007606.

Santanello, J. A., Jr., C. D. Peters-Lidard, M. Garcia, **D. M. Mocko**, M. A. Tischler, M. S. Moran, and D. P. Thoma, 2007: Using remotely-sensed estimates of soil moisture to infer soil texture and hydraulic properties across a semi-arid watershed, *Remote Sens. Environ.*, **110**, 79–97, doi:10.1016/j.rse.2007.02.007.

Schull, M. A., S. Ganguly, A. Samanta, D. Huang, N. V. Shabanov, J. P. Jenkins, **J. C. Chiu, A. Marshak**, J. B. Blair, R. B. Myneni, and Y. Knyazikhin, 2007: Physical interpretation of the correlation between multi-angle spectral data and canopy height, *Geophys. Res. Lett.*, **34**, L18405, doi:10.1029/2007GL031143.

Sinyuk, A., O. Dubovik, B. Holben, T. F. Eck, F.-M. Breon, J. Martonchik, **R. Kahn**, D. J. Diner, E. F. Vermote, J.-C. Roger, T. Lapyonok, and I. Slutsker, 2007: Simultaneous retrieval of aerosol and surface properties from a combination of AERONET and satellite data, *Remote Sens. Environ.*, **107**, doi:10.1016/j.rse.2006.07.022.

Sud, Y. C., and D. Lee, 2007: Parameterization of aerosol indirect effect to complement McRAS cloud scheme and its evaluation with the 3-year ARM-SGP analyzed data for single column models, *Atmos. Res.*, **86**, doi:10.1016/j.atmosres.2007.03.007.

Takemura, T., **Y. J. Kaufman, L. A. Remer**, and T. Nakajima, 2007: Two competing pathways of aerosol effects on cloud and precipitation formation, *Geophys. Res. Lett.*, **34**(4) L04802, doi:10.1029/2006GL028349.

Turner, D. D., A. M. Vogelmann, R. T. Austin, J. C. Barnard, K. Cady-Pereira, **J. C. Chiu**, S. A. Clough, C. Flynn, M. M. Khaiyer, J. Liljegren, K. Johnson, B. Lin, C. Long, **A. Marshak**, S. Y. Matrosov, S. A. McFarlane, M. Miller, Q. Min, P. Minnis, W. O'Hirok, Z. Wang, and **W. Wiscombe**, 2007: Thin Liquid Water Clouds: Their Importance and Our Challenge, *Bull. Amer. Meteor. Soc.*, **88**, 177–190.

Vallina, S. M., R. Simó, **S. Gassó**, C deBoyer-Montégut, E delRio, E. Jurado, and J. Dachs, 2007: Analysis of a potential “solar radiation dose–dimethylsulfide–cloud condensation nuclei” link from globally mapped seasonal correlations, *Global Biogeochem. Cycles*, **21**, GB2004, doi:10.1029/2006GB002787.

Vant-Hull, B., **A. Marshak, L. Remer**, and Z. Li, 2007: The effects of scattering angle and cumulus cloud geometry on satellite retrievals of cloud drop effective radius, *Geosci. Rem. Sens. Lett.*, **45**(4), 1039–1045.

***Varnai, T., and R. F. Cahalan**, 2007: Potential for airborne offbeam lidar measurements of snow and sea ice thickness, *J. Geophys. Res.*, **112**, C12S90, doi:10.1029/2007JC004091.

Varnai, T., and A. Marshak, 2007: View angle dependence of cloud optical thickness retrieved by Moderate Resolution Imaging Spectroradiometer (MODIS), *J. Geophys. Res.*, **112**, D06203, doi:10.1029/2005JD006912.

***Wen, G., A. Marshak, R. F. Cahalan, L. A. Remer, and R. G. Kleidman**, 2007: 3-D aerosol-cloud radiative interaction observed in collocated MODIS and ASTER images of cumulus cloud fields, *J. Geophys. Res.*, **112**, D13204, doi 10.1029/2006JD008267.

***Wilcox, E. M.**, and L. J. Donner, 2007: The Frequency of Extreme Rain Events in Satellite Rain Rate Estimates and an Atmospheric General Circulation Model, *J. Climate*, **20**, 53–69.

Yang, P., L. Zhang, G. Hong, S. L. Nasiri, B. A. Baum, H. L. Huang, **M. D. King**, and **S. Platnick**, 2007: Differences between collection 4 and 5 MODIS ice cloud optical/microphysical products and their impact on radiative forcing simulations, *IEEE Trans. Geosci. Remote Sens.*, **45**, 2886–2899.

Yu, H., R. Fu, R. E. Dickinson, Y. Zhang, M. Chen, and H. Wang, 2007: Interannual variability of smoke and warm cloud relationships in the Amazon as inferred from MODIS retrievals, *Remote Sens. Environ.*, **111**, 435–449.

Zhang, K., W. Li, K. Stamnes, H. Eide, R. Spurr, and **S. C. Tsay**, 2007: Assessment of the MODIS Algorithm for Retrieval of Aerosol Parameters over the Ocean, *Appl. Opt.*, **46** (9), 1562–1534.

***Zhou, Y. P.**, W.-K. Tao, A. Y. Hou, W. S. Olson, C.-L. Shie, K.-M. Lau, M.-D. Chou, X. Lin, and M. Grecu, 2007: Use of High-Resolution Satellite Observations to Evaluate Cloud and Precipitation Statistics from Cloud-Resolving Model Simulations, Part I: South China Sea Monsoon Experiment, *J. Atmos. Sci.*, **64**(12), 4309–4329.

Zhou, Y., D. P. Kratz, A. C. Wilber, S. K. Gupta, and R. D. Cess, 2007: An Improved Algorithm for Retrieving Surface Downwelling Longwave Radiation from Satellite Measurements, *J. Geophys. Res.* Vol. **112**, D15102, doi:10.1029/2006JD008159.

613.3 Atmospheric Chemistry and Dynamics Branch

Anton, M., V. E. Cachorro, J. M. Vilaplana, **N. A. Krotkov**, A. Serrano, C. Toledano, B. de la Morena, and **J. R. Herman**, 2007: Total ozone mapping spectrometer retrievals of noon erythermal-CIE ultraviolet irradiance compared with Brewer ground-based measurements at El Arenosillo (southwestern Spain), *J. Geophys. Res.*, **112**, D11206, doi:10.1029/2006JD007254.

Barth, M. C., S.-W. Kim, W. C. Skamarock, A. L. Stuart, **K. E. Pickering**, and L. E. Ott, 2007: Simulations of the redistribution of formaldehyde, formic acid, and peroxides in the 10 July 1996 Stratospheric-Tropospheric Experiment: Radiation, Aerosols, and Ozone deep convection storm, *J. Geophys. Res.*, **112**, D13310, doi:10.1029/2006JD008046.

Barth, M. C., S.-W. Kim, C. Wang, **K. E. Pickering**, L. E. Ott, G. Stenchikov, M. Leriche, S. Cautenet, J.-P. Pinty, Ch. Barthe, C. Mari, J. H. Helsdon, R. D. Farley, A. M. Fridlind, A. S. Ackerman, V. Spiridonov, and B. Telenta, 2007, Cloud-scale model intercomparison of chemical constituent transport in deep convection, *Atmos. Chem. Phys.*, **7**, 4709–4731.

Carn, S. A., **N. A. Krotkov**, **K. Yang**, R. M. Hoff, A. J. Prata, **A. J. Krueger**, S. C. Loughlin, and P. F. Levelt, 2007: Extended observations of volcanic SO₂ and sulfate aerosol in the stratosphere, *Atmos. Chem. Phys. Disc.*, **7**, 2857–2871.

*Carn, S. A., **A. J. Krueger, N. A. Krotkov, K. Yang**, and P. F. Levelt, 2007: Sulfur dioxide emissions from Peruvian copper smelters detected by the Ozone Monitoring Instrument, *Geophys. Res. Lett.*, **34**, L09801, doi:10.1029/2006GL029020.

***Chandra, S., J. R. Ziemke, M. R. Schoeberl**, L. Froidevaux, W. G. Read, P. F. Levelt, and **P. K. Bhartia**, 2007: Effects of the 2004 El Niño on tropospheric ozone and water vapor, *Geophys. Res. Lett.*, **34**, L06802, doi:10.1029/2006GL028779.

***Chin, M., T. Diehl**, P. Ginoux, and W. Malm, 2007: Intercontinental transport of pollution and dust aerosols: implications for regional air quality, *Atmos. Chem. Phys. Disc.*, **7**, 9013-9051.

DeLand, M. T., E. P. Shettle, G. E. Thomas, and J. J. Olivero, 2007: Latitude-dependent long-term variations in polar mesospheric clouds from SBUV Version 3 PMC data, *J. Geophys. Res.*, **112**, D10315, doi:10.1029/2006JD007857.

***Duncan, B. N.**, J. A. Logan, I. Bey, I. A. Megretskaya, R. M. Yantosca, P. C. Novelli, N. B. Jones, and C. P. Rinsland, 2007: Global budget of CO, 1988-1997: source estimates and validation with a global model, *J. Geophys. Res.*, **112**, D22301, doi:10.1029/2007JD008459.

Duncan, B. N., S. E. Strahan, Y. Yoshida, S. D. Steenrod, and N. Livesey, 2007: Model study of the cross-tropopause transport of biomass burning pollution, *Atmos. Chem. Phys.*, **7**, 3713-3736.

Felder, M., P. Poli, and **J. Joiner**, 2007: Errors induced by ozone field horizontal inhomogeneities into simulated nadir-viewing orbital backscatter UV measurements, *J. Geophys. Res.*, **112**, D01303, doi:10.1029/2005JD006769.

Fleming, E. L., C. H. Jackman, D. K. Weisenstein, and M. K. W. Ko, 2007: The impact of interannual variability on multidecadal total ozone simulations, *J. Geophys. Res.*, **112**, D10310, doi:10.1029/2006JD007953.

Hansen, J., M. Sato, R. Ruedy, P. Kharecha, A. Lacis, R. Miller, L. Nazarenko, K. Lo, G. A. Schmidt, G. Russell, I. Aleinov, S. Bauer, E. Baum, B. Cairns, V. Canuto, M. Chandler, Y. Cheng, A. Cohen, A. Del Genio, G. Faluvegi, **E. Fleming**, A. Friend, T. Hall, **C. Jackman**, J. Jonas, M. Kelley, N. Y. Kiang, D. Koch, **G. Labow**, J. Lerner, S. Menon, T. Novakov, V. Oinas, Ja. Perlitz, Ju. Perlitz, D. Rind, A. Romanou, R. Schmunk, D. Shindell, P. Stone, S. Sun, D. Streets, N. Tausnev, D. Thresher, N. Unger, M. Yao, and S. Zhang, 2007: Dangerous human-made interference with climate, a GISS model E study, *Atmos. Chem. Phys.*, **72(1)**, 2287-2312.

Jackman, C. H., D. R. Marsh, F. M. Vitt, R. R. Garcia, **G. J. Labow**, C. E. Randall, M. Lopez-Puertas, B. Funke, and **E. L. Fleming**, 2007: Short- and medium-term atmospheric effects of very large solar proton events, *Atmos. Chem. Phys. Disc.*, **7**, 10,543-10,588.

* **Jackman, C. H.**, R. G. Roble, and **E. L. Fleming**, 2007: Mesospheric dynamical changes induced by the solar proton events in October-November 2003, *Geophys. Res. Lett.*, **34**, L04812, doi:10.1029/2006GL028328.

* **Joiner, J.**, E. Brin, R. Treadon, J. Derber, P. van Delst, A. da Silva, J. Le Marshall, P. Poli, R. Atlas, D. Bungato, and C. Cruz, 2007: Effects of data selection and error specification on the assimilation of AIRS data, *Quart. J. Roy. Meteor. Soc.*, **133**, 181-196.

* **Lary, D.**, D. W. Waugh, **A. R. Douglass, R. S. Stolarski, P. A. Newman**, and H. Mussa, 2007: Variations in stratospheric inorganic chlorine between 1991 and 2006, *Geophys. Res. Lett.*, **34**, L21811, doi:10.1029/2007GL030053.

Martin, R. V., B. Sauvage, I. Folkins, C. E. Sioris, C. Boone, P. Bernath, and **J. Ziemke**, 2007: Space-based constraints on the production of nitric oxide by lightning, *J. Geophys. Res.*, **112**, D09309, doi:10.1029/2006JD007831.

APPENDIX 2: REFEREED ARTICLES

- Mayr, H. G., J. G. Mengel**, F. T. Huang, and **E. R. Nash**, 2007: Equatorial annual oscillation with QBO-driven 5-year modulation in NCEP data, *Ann. Geophys.*, **25**, 37–45.
- ***Mayr, H. G., J. G. Mengel**, C. I. Wolff, F. T. Huang, and H. S. Porter, 2007: The QBO as potential amplifier and conduit to lower altitudes of solar cycle influence, *Ann. Geophys.*, **25**, 1071–1092.
- ***McPeters, R. D., G. J. Labow**, and J. A. Logan, 2007: Ozone climatological profiles for satellite retrieval algorithms, *J. Geophys. Res.*, **112**, D05308, doi:10.1029/2005JD006823.
- Olsen, M. A., M. R. Schoeberl**, and J. E. Nielsen, 2007: Response of stratospheric circulation and stratosphere-troposphere exchange to changing sea surface temperatures, *J. Geophys. Res.*, **112**, D16104, doi:10.1029/2006JD008012.
- Olson, W. S., S. Yang**, J. Stout, and **M. Grecu**, 2007: The Goddard Profiling Algorithm (GPROF): Description and current applications., *Measuring Precipitation from Space: EURAINSAT and the future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer-Verlag, 179–188.
- Ott, L. E., **K. E. Pickering**, G. L. Stenchikov, H. Huntrieser, and U. Schumann, 2007: Effects of lightning NO_x production during the 21 July European Lightning Nitrogen Oxides Project storm studied with a three-dimensional cloud-scale chemical transport model, *J. Geophys. Res.*, **112**, D05307, doi:10.1029/2006JD007365.
- Pawson, S., I. Stagner, **S. R. Kawa**, H. Hayashi, W.-W. Tan, **J. E. Nielsen**, **Z. Zhu**, L.-P. Chang, and N. J. Livesey, 2007: Stratospheric transport using 6-h-averaged winds from a data assimilation system. *J. Geophys. Res.*, **112**, D23103, doi:10.1029/2006JD007673.
- Sauvage, B., R. V. Martin, A. van Donkelaar, and **J. R. Ziemke**, 2007: Quantification of the factors controlling tropical tropospheric ozone and the South Atlantic maximum, *J. Geophys. Res.*, **112**, D11309, doi:10.1029/2006JD008008.
- Stevens, M. H., C. R. Englert, **M. T. DeLand**, and S. M. Bailey, 2007: Polar mesospheric cloud mass and the ice budget: 2. Application to satellite datasets, *J. Geophys. Res.*, **112**, D08205, doi:10.1029/2006JD007532.
- ***Strahan, S. E., B. N. Duncan**, and P. Hoor, 2007: Observationally derived transport diagnostics for the lowermost stratosphere and their application to the GMI chemistry and transport model, *Atmos. Chem. Phys.*, **7**, 2435–2445.
- Tedetti, M., R. Sempéré, A. **Vasilkov**, B. Charrière, D. Nérini, W. L. Miller, K. Kawamura, and P. Raimbault, 2007: High penetration of ultraviolet radiation in the south east Pacific waters, *Geophys. Res. Lett.*, **34**, L12610, doi:10.1029/2007GL029823.
- Textor, C., M. Schulz, S. Guibert, S. Kinne, Y. Balkanski, S. Bauer, T. Berntsen, T. Berglen, O. Boucher, **M. Chin**, F. Dentener, **T. Diehl**, J. Feichter, D. Fillmore, P. Ginoux, S. Gong, A. Grini, J. Hendricks, L. Horowitz, P. Huang, I. S. A. Isaksen, T. Iversen, S. Kloster, D. Koch, A. Kirkevag, J. E. Kristjansson, M. Krol, A. Lauer, J. F. Lamarque, X. Liu, V. Montanaro, G. Myhre, J. E. Penner, G. Pitari, S. Reddy, O. Seland, P. Stier, T. Takemura, and X. Tie, 2007: The effect of harmonized emissions on aerosol properties in global models—an AeroCom experiment, *Atmos. Chem. Phys. Disc.*, **7**, 1699–1723.
- Thomas, B. C., **C. H. Jackman**, and A. L. Melott, 2007: Modeling atmospheric effects of the September 1859 solar flare, *Geophys. Res. Lett.*, **34**, L06810, doi:10.1029/2006GL029174.

Tzortziou, M., C. L. Osburn, and P. J. Neale, 2007: Photobleaching of dissolved organic material from a tidal marsh-estuarine system of the Chesapeake Bay, *Photochemistry and Photobiology*, **83**(4), doi:10.1111/j.1751-1097.2007.00142.x.

Tzortziou, M., A. Subramaniam, **J. R. Herman**, C. L. Gallegos, P. J. Neale, and L. W. Harding, Jr., 2007: Remote sensing reflectance and inherent optical properties in the Mid Chesapeake Bay, *Estuarine, Coastal, and Shelf Science*, **72**(1-2), doi:10.1016/j.ecss.2006.09.018

Waugh, D. W., **S. E. Strahan**, and **P. A. Newman**, 2007: Sensitivity of stratospheric inorganic chlorine to differences in transport, *Atmos. Chem. Phys.*, **7**, 2435–7,2445.

Weaver, C., A. da Silva, **M. Chin**, P. Ginoux, O. Dubovik, D. Flittner, A. Zia, L. Remer, B. Holben, and W. Gregg, 2007: Direct Insertion of MODIS Radiances in a Global Aerosol Transport Model. *J. Atmos. Sci.*, **64**(3), 808–826.

Ziemke, J. R., **S. Chandra**, **M. R. Schoeberl**, L. Froidevaux, W. G. Read, P. F. Levelt, and **P. K. Bhartia**, 2007: Intra-seasonal variability in tropospheric ozone and water vapor in the tropics, *Geophys. Res. Lett.*, **34**, L17804, doi:10.1029/2007GL030965.